Automotive electronics, programming, chip tuning.

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CodiSys ™

Abbreviated system user's manual

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1. Features.

- possibility to use the programmer in open area;
- power supplied from an electric grid module 220V AC or directly from automotive electric installation 12V DC;
- no need to solder cables inside the dashboard – on exception of mileage counters that have inaccessible programmable circuits – e.g. Mitsubishi Lancer;
- handling of programmable circuits does not depend on clock rate of a supervising computer and a set of chips installed on the computer motherboard;
- a number of persons can use the software – every user has his/her own password and all the actions performed by that person are recorded in the system log;
- updated versions of software are delivered free-of-charge via the Internet – the system files are protected from unauthorised use in other systems;

2. Hardware requirements

The CodiSys™ has the following hardware requirements

- PC - compatible computer with installed WINDOWS™ operation system or newer;
- 20 MB free space on a hard disk;
- free RS 232 port;
- parallel printer's port (CENTRONICS) – a printer may be connected;
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3. Content of the CodiSys™ package

- user's manual;
- CodiProgII programmer;
- 14-pin clips (SMD);
- 8-pin clips (SMD);
- 8-pin clips (DIP);
- BMW adapter Green Codistecker;
- BMW adapter Brown, White, Blue, Black Codistecker;
- BMW adapter SW17;
- power supplying cable 12V;
- power supply unit 220VAC / 12VDC;
- hardware key HASP;
- connecting cable - RS232 standard;
- licence agreement;

4. Markers and special signs used in the text

[!] The mark denotes a passage that contains information, which is extremely important and special attention should be paid to it. Neglecting the instruction or inaccurate obedience to it may result in to serious and unalterable damage;

[✎] The mark denotes a passage that contains a significant information.

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5.   Connection of the programming programmer and the hardware key.

In order to install both the programmer and the hardware authorization key (HASP) one has to carry out the following actions:
-   switch the computer off;
-   plug in the hardware key to the parallel printer port (LPT) – the printer may be connected to the other side of the key;
-   connect the CodiProgII programmer to a free serial port (COM);
-   connect power supplying voltage to the programmer;
-   switch the computer on

6.   First run.

In order to install the software, the user has to run the installation program – *setup.exe*. After having installation completed, the computer has to be restarted.

The CodiChange program must be run as the first one. Please enter the user_name "Admin" to the *user* box and the system administrator's password, which is provided along with the licence agreement, must be typed in the *password* box. Next, a configuration window shall be displayed. The widow demands to set up the following parameters:
-   number of the serial port (COM) to which the CodiProgII is connected;
-   maximum correct mileage;
-   authorised users' names and passwords – the boxes for old passwords have to be left empty;

After filling the table, the data has to be accepted by clicking the button "Confirm changes" ("Zatwierdź zmiany"), then terminate the program by closing its window (e.g. "Alt + F4" shortcut);

Now, the CodiProg program should be launched. First, it is necessary to get logged in. For that purpose the user has to enter his/her name and password – the both were record in the previous program. After successful completion the login procedure the option "About the program" ("O programie") from the "Help" ("Pomoc") menu.

Unless the program displays the message "Communication error occurred " ("Nastąpił błąd komunikacji"), the system is ready to operation. If communication has not been established one should check connections, contacts and wiring or use another serial (COM) port of the computer (the appropriate serial port can be selected using the F6 key).

i Inside the box "Maximum correct mileage", the minimum possible value should be entered. In case of servicing a car, which mileage exceeds the value shown in the box, the previously set value should be incremented, at least to the number of kilometres indicated by the mileage counter being corrected. Standard value for that box is 400,000 km.

7.   Modification of mileage indicated on a dashboard.

In order to alter mileage indication one has to run the CodiChange program. After having been logged in, the F2 key should be depressed, then selection of an appropriate

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programmable circuit is to be carried out. Next, the readout voltage must be defined. The operator decides whether the circuit uses pull-up resistors. As far as possible, the entered information shall be assisted and completed by the program itself.

After setting up the above parameters, the next steps can be executed. The operator carefully connects a clip to the programmable circuit and approves the operation by depressing the OK button. After confirming selections and clicking OK, the CodiProgII programmer shall be activated and data from the mileage counter shall be read.

After readout completion and closing the CodiProgII program, of the data from the counter are read correctly, the CodiChange software moves to automatic recognizing of mileage coding method.

Depending of the dashboard type, the three options are available:

1. Selection of automatic recognition of mileage.
2. The mileage counter is known for sure, hence the "List" ("Lista") option is activated.
3. In case of a new model of mileage counter the option "Search" ("Wyszukiwanie") can be selected, however, that option shall not be described in this manual – it is an option for advanced users.

In case in the option (1) is selected, the appropriate type of coding is sought, therefore one has to move to the box, where a new mileage value should be entered (the number can be expressed either in kilometres or in miles. After correct input of data values, the button "Execute" ("Wykonaj") should be depressed – in this way the operators confirms making a record about mileage counter failure. The system shall automatically make a copy in a directory (folder) FAILURES (AWARIE) that contains information about failures and launches the mileage counter programming procedure. After shutdown the CodiProgII program, the application is ready to perform the next programming operation or the user is informed about possible errors during data writing.

In the operator selects the option (2) – he must be absolutely sure about the dashboard type – the value of current mileage should be entered. That number must be given as accurately as possible, because it will be added to the list of mileage values. If the real mileage is unknown, the number '999999' is to be entered. In the following, the button "Next" ("Dalej") should be depressed and one can select from the list such a mileage value, which is the closest to the desired number. Then the button "Execute" ("Wykonaj") should be depressed – in this way the operators confirms making a record about mileage counter failure. The system shall automatically make a copy in a directory (folder) FAILURES (AWARIE) that contains information about failures and launches the mileage counter programming procedure. After shutdown the CodiProgII program, the application is ready to perform the next programming operation or the user is informed about possible errors during data writing.

⚠ In order <u>to avoid troubles or data loss</u> it is indispensable to remember that the system must cleaned and every remain of paints and other insulating materials that may cause lack of electric contact have to be removed.

⚠ After the programmer completes reading data from the mileage counter, the system must automatically recognize correct value of mileage 0 otherwise or in any doubts, the user must contact the licence provider. Neglecting or non-obedience to this instruction may cause damage of the dashboard.

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⚠ The read /write voltage used by the programmer should be as low as possible. However, is an old dashboard is to be programmed, one has to apply medium or high programming voltage, since the circuit can cause problems during programming.

✎ While connecting the coupling clip to the programmed circuit, power supply voltage of the whole system must be switched off.

⚠ The dashboard under programming should be disconnected from the car installation. The programmed circuit shall be energised from the CodiProg II appliance.

8.   Modification of the dashboard serial number.

For the current version of software, modification of the dashboard serial number is possible only for BMW car makes.

In order to change the serial number, one has to run the CodiChange.exe program.

Having been logged-in, it is necessary to press F3 key. Then, selection of an applicable car make is carried out and, after depressing the "Next" ("Dalej") button, the program is prepared to programming procedure. For this, a coupling clip should be carefully placed on the programmable circuit. When done, confirm by pressing the OK button. After depressing the OK button, the CodiProg II programmer shall be activated and data reading from the mileage counter is possible.

After shutdown, the CodiProgII program, in case of the correct readout, the CodiChange program shall display the current serial number of the dashboard. A new serial number should be entered (five last digits or seven characters - digits and letters - that are the same as in the car chassis number) and accepted by pressing the "Execute" ("Wykonaj") button. The system shall automatically make a copy in a directory (folder) FAILURES (AWARIE) that contains information about failures and launches the new serial number programming procedure. After shutdown the CodiProgII program, the application is ready to perform the next programming operation or the user is informed about possible errors during data writing.

9.   Backup copies of primary data.

For safety, the CodiChange program makes backup copies from the factory-made dashboard. The copies are located in the "FAILURES" ("AWARIE"). The data are stored in the following format:
- date of programming – year, month, day
- tome of operation – hour, minute, second,
- car make and coding method.

In case, when using backup copied gets necessary, one has to choose an appropriate item from the list and click the "Execute" ("Wykonaj") button. Connect the coupling clip and place it over the circuit that is to be programmed. Accept the consecutive dialogue box depressing OK each time. The CodiChange program shall call the CodiProg II programmer and the previous data shall be restored.

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10. The method of programming loops accounting – for the limited version

The number of programming loops is registered and displayed by the CodiProg II software. However, that indication may count up unsuccessful and partially uncompleted programming operation along with the correct ones. In such a case, if the CodiSys3.log file is unaltered[1], the unsuccessful programming operations will be not accounted by the licence provider. If the CodiSys3.log file is damaged, the licence provider shall account programming loops and charge according to the CodiProg II indications. However, the programming operations, which are not one hundred percent positive will not be counted up by the system.

Settling accounts with the licence provider can be carried out in two ways:

The first method is a direct visit of the Elprosys company's representative at the premises of the licence owner.
The second way is the remote settlement. It is possible via the Internet, fax or telephone. The squaring procedure looks like as follws:

a) the system administrator from the user's company sends the file CodiSys3.log to the e-mail address mariusz.najmowicz@elprosys.com.pl;

b) possible errors and program messages that have occurred during unsuccessful programming operations should be registered and sent to the fax number:
(+48 32) 376-1-375;

c) after receiving the file or the fax, the licence provider determines the number of programming operation that are not to charged and deducts from the total number, for which the licence is granted and must be paid – such information shall be passed to the company's system administrator by phone;

d) the sum for the licence fee should by paid by bank transfer or postal order;

e) one has send a copy of payment receipt to the fax number (+48 32) 376-1-375;

f) an employee from the ElproSys company shall disclose password to unlock the programmer;

g) after resetting of the programming loop counter (by means of the CodiRes program), the old CodiSys3.log file should be deleted – then the software shall create a new log file, which is necessary for further settlement;

In case of a failed (unsuccessful) programming procedure (but registered within the programmer) the user is obliged to:

- inform the employee of the ElproSys company about the event;

- if a direct telephone contact is impossible at the moment, note the following information:

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[1] Czy nienaruszony (nie naruszony – *ort.*) oznacza brak uszkodzenia czy brak modyfikacji pliku?

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a) current time;

b) current date;

c) mileage counter type – i.e. producer (car make), HW version, SW version;

d) all the data of the programmable circuit;

e) make the second data readout from the programmable circuit (does not refer to the car makes from the list);

f) if possible, check whether the mileage counter of the vehicle works correctly and contains appropriate data – in the car.

The programmer and accompanying equipment are covered by one-year long warranty.

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